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Liew, Choong-Chin

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<120> Method for the Detection of Gene Transcripts in Blood and Uses
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<150> US

<151> 2000-01-04

<150> US 60/115,125

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<151> 1999-01-06

<160> 112

<170> PatentIn version 3.2

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 25 gaaaaanttt tccggggggc ccacccggga agggntnccg gggaaggg 168

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 35 ggaacaaatt tgggatagaa atataaggct gggattacag gcatgagcca ccaagcccgg 120
 cccacatttc cattttaat atatactgtg ctttacaat attataatat gttttaaatt 180
 40 atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaa ataagcattc 240
 ttgaaatata tatttagttt ttaatgtgg taggaaaatc aaagccagag ggagtagaaa 300
 caaaatttgt gattttctaa atacttctg gctgcaggga agaaaccacg tcccaggcga 360
 45 agtctacct aattgatga taaaattaca tggaagggat tctgttggc atgaggacct 420

accaagatgg tcaacaga

438

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 15 aaagggggaa ggcccccaa accggggggg gggnaaaaag gtgggttcc cccttttcc 180
 aattccaaa accaatttc aaaaggnaaa ccaacnttc caaaatggg aaagg 235

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 45 caaattgggg ggnaaaccaa atttaagggg ggaagggggg gnccccccg ggaaaggccc 180

aaggggggaa aattttccg ggggtgggtn gggggaacca atttaagggg ggggccccg 240

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15

ctgtacttga actctaaaac tggtagagaa actcagtgt tactccaaca gattcatttc 180

aaatagctgt aaaaggtatg ttactccag aagaccagag ttgcttctt tgaactctc 240

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attccttggg cctaggaacc ctcatcacc tcacccaac gtcaaccag atcttctctt 300

ccataaacag cactccctca gggccctgcc tgacacaggc atagactgtc atgttgatt 360

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tttaggcggc accccaacaa caccaggccc tactttttcc aaggncgggg aagcccatgg 180

45 gtcttgggna acgggcaatg cgggcttgca acgggnggaa naaaacagn cccaaaagaa 240

tg 242

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 15 gcagggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct 180

c 181

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ataatggaag atagctntga ggatnaacnc tggtnaggg 100

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 15 aaggggggtg gggaagagcc aaatttcttt gggaaanaac gcccccttgg ggaaaanaag 180
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 30 ggaagaattg tatgtgggag ttttaatgg tctcatttca ttggctataa ctcaagtaca 180
 aggagaaata taactgcaga ggagcttga aaatttagtt cagctgaggg taaaggaaga 240
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 45 gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta 180

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 cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag 300
 5 tgggcgccag caggggcggc cttcgggcca aaccgaacct caggtcanac ttccaagaaa 360
 agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccggggg 420
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aagaaggaac ccacctngg ggccaaacaa aaacttaaaa acccccccat ttctncccc 180
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 tgnataacta ttgcctctta tatacacnac caannntgcg aagggcnann nnacctttnc 180
 cantnnnctg gggncaccacn nnnngngaact gagagtggat cttgtgtacc tgacnnacca 240
 20 gntntnnagn agggcgctca ctctgattgg tgcacatgg ttacacagtg tgtgcaaaga 300
 ccngnctatc tcaactganga tgattgncag ngccnntggg tggcacnang ggnactgatg 360
 25 ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnata 420
 aggttaccnc cttnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa 480
 nctntcnct atagcatga ttttnnncag tgcgtcagcc ttganaanga ancnnacttt 540
 30 tgnatagatga nnnngtctc ncccttgngg ctnacaaatt ccancacctt tgggtggcngc 600
 agccnttaag ancactnttt ttgggttgcg cntttggatg aattacnaat agnntgtttt 660
 35 gttncaggc ccttctgcna aatatgaana aaagngcnct tagctttttg ngggaactgn 720
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caagtacgcn agcncatgaan ctaaagcaag caagaaaaag 100

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<212> DNA

<213> Human

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20 tagatatggg aagattatag gaggcgacaa ctaccgagcc tggatagc tgggtgtcaa 180

gaagagtctt agttcattta ttggcccag aaccctctaa tccccttgta atttatgtca 240

agaggaacag ctctttggac actggaaaac cgtgagagag taagatttac acccttaggg 300

25 gcctaatagc agccaccatt aagaaagcgt tcgtccaca cccactacct aaaaatcgaa 360

tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420

30 ataagtaacc tgaaaacatt ctctctgca taagccctgc gttggattat atcctgcact 480

gacaattaac tgccccaata tctacaatcc aacct 515

35 <210> 55

<211> 176

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 <223> n is a, c, g, or t

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40 agcctgcct cattagacca agacagcaag gttncctg gtcactagat gaaatt 176

<210> 56
 <211> 317
 45 <212> DNA
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<220>
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 <223> n is a, c, g, or t

<400> 56
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 10 atgtgggatg tgacctcta ggactcacct tgcacagctg ggtgcagcag ggataggtaa 120
 ggatttgggg ttagaggta caattgcctt ttatggta gagaaaggct ctggggctgg 180
 15 agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct 240
 gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtgggtg atgctggcag 300
 acattgttat tgccatt 317
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<210> 57
 <211> 209
 <212> DNA
 25 <213> Human

<400> 57
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 aggagaattg cgtcatttaa agcctgttga cgctttctc ccgcagacga atggaaagat 180
 taattgggag tgggggctga aacaattcg 209
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<210> 58
 <211> 262
 <212> DNA
 40 <213> Human

<400> 58
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 45 acctgggtcac cgagttgcga accagcctcc aatatgtgga accctgtact ctctaaaaat 120

caaatcaccg gcatggagat tgcgcctgtg gtcccaaat actcgggctg ggacacgatg 180

agttgcttgg cccaaggaag gaggggtgta tggctgatca cactggtccg cctgggtgac 240

5 agagcgagac tccatctcta at 262

<210> 59

<211> 430

10 <212> DNA

<213> Human

<400> 59

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15 aaacctttat tgtcttacag gggggaacta gcgcggggct gaataaaacc ttggccctt 120

cccgggggag gggatatccg ttataaacc ccaagggtat ttcttagca aaatacttaa 180

20 aaccggccgg ggttttata caaactggga acccactttt gaaaaattt ggcctttga 240

tctgggatgg gaatatgagt tttatacat ttcatcttct tttgggcaa aggcccggtt 300

aagtattccc ccccgggggg cctttacaaa aagggcgggt taaaagctt ttgggcccc 360

25 ctagggaatt gtttaacac ctaaaaccc ctgcttcct taaagggcg ttcttaatt 420

tgggggcggc 430

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<210> 60

<211> 350

<212> DNA

<213> Human

35

<400> 60

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40 tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca 180

tgattccgaa tcaccacag acagctcgat caccatacgt atcacccaac atatatacct 240

45 tctaagactt gctagaaaca accaccacat ttgatgctta atcaccactc tgacgcgcat 300

taaagtgagg ggactctcct aatttctgta agttgatttt tgcattctga 350

<210> 61

5 <211> 515

<212> DNA

<213> Human

<400> 61

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aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt 180

15

taaaaaggat tcattagtgt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg 240

aagtagatcc aaatatacat ggtagcattg aatacaataa agatggcatc gtagcagtgg 300

20 agaaaagaag aattatttca taaacctgtg tggaatggct aggcaatcat ctggaaaaaa 360

atgaagtga ataataaaaa tatattctac actagcacia attataaata aagcagtga 420

ttaatgaga aaaattaaat cataatgatt tcaaagataa cataggataa tttctttata 480

25

gtcttctaaa atatatgact ttatgaattc tgact 515

<210> 62

30 <211> 611

<212> DNA

<213> Human

<400> 62

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aataatccac cagatacaag ttgcatcaa ctctgtgaa atatttttt tcctttttgt 180

40

tgggcatttt tatggtctaa atatagaatg accaatgcct ctagaacaaa ctgacctgg 240

tcagtgttat caagaagcag actgtttctt actttctttg tatttcctta cttatttaaa 300

45 tttgttaaaa ttgatataatt gatataaaa acttcttttg ccagtgttgg tggcacacgc 360

ctttaatccc agcacttagg aggcagaggc aggggtggatt tctgaatttg agggcaggct 420

agtctacaga gcaagttcca ggtcagccaa ggctatatat agaaactctg gcatgaaaaa 480

5 ccaaccaaac caaaccaaac caaaccagac cagaccagac cagaccagac caaaccaaac 540

caaaccagac taaaccaaac caaaccagac cagaccagac cagaccagac cagaccagac 600

cagaccaaac t 611

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<210> 63

<211> 291

<212> DNA

15 <213> Human

<400> 63

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20 taatgcgaat atacttcctc ttctttttgc atggtcttgc ccagcctctg caatactgat 120

gaacacatgc tgaagatcat ctaactcaat atggcgcata ttctatgtc ttgctgccc 180

ggacatagga caacttcgtc gctcactagt tctaacatat taatgctggc gtaggtggag 240

25 aactactgca catatactct tactcggagg ctgaggcacg aggatcactt g 291

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30 <211> 309

<212> DNA

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<400> 64

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tatattcaa atgtcttgct aacagtgggt actttgctct atccttagct atacgtctcg 180

40 aggcacattg ttctctatg ccccgctacg ctttgccta gagctcggcg gtatctatat 240

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45 ctgattaga 309

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 5 <213> Human

 <400> 65
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 10 tggaataaag tggaatagac tcgaatggaa tggaatgcaa tggaatggac tcgaatggaa 120
 agggatggaa tggactcgaa gggaatggaa tggaatggat tcgaatggaa aggaatggaa 180
 tggactcaaa aggaatggaa tggaatggac tcaaatggaa tggactcgaa ttgaatgaaa 240
 15 tgtaatggaa tagactcgaa tggaatggaa cgaaattt 278

 <210> 66
 20 <211> 142
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 <213> Human

 <400> 66
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 atagctagta aactccccct gt 142
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 35 <213> Human

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 40 aaagatgac tcctcatgct tccatgcact gcgagtagaa gacatactga gcatagtgtg 120
 attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc 180
 ccacatttt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgctccc 240
 45 caaagctcca ttcccttgaa agcagaagtg taatattact tcttag 286

<210> 68
 <211> 179
 5 <212> DNA
 <213> Human

 <400> 68
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 10 tagaagtcatt tattttatta taaaacatgt ggattagata ttttcattta tgtgattaaa 120
 ctttctaaac aaagattata tgaattatct taaagattta aaaagtaatt aagttaaatt 179
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 <400> 69
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 30 cttcagtcta agaacgtaaa tccatggaag aattttaagc aggggtgtgc ctgaccaca 120
 tttgaattc taaactgtct ctgggtgggt gtgggtgcca ccaagagcat gtgttcattg 180
 agggagactg gttttttaca gttgtctatg agagagatga cagttgcctg gattatgggtg 240
 35 gtgacattgg agataagcag gtagacagat tctcagtgtg ttaggagaga aaaatcaata 300
 ggaaatttaa aataaataat taactgtggc cataggagga aggagtcttt gggttnggtt 360
 40 ctcaatttct gcatgagaaa aaaggtggac 390

 <210> 70
 <211> 481
 45 <212> DNA
 <213> Human

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 <223> n is a, c, g, or t

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 10 gatgacataa aatgagatga aatgagatgt aatgatggaa tgagatgaga tgaaatgaga 120
 tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg 180
 15 agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat 240
 gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat 300
 gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga 360
 20 tgagatgaca tgaaataatg aaatgaaatt gaaatgagat aagatacgag ctgagatgca 420
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 25 g 481

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 cacag 125

 20 <210> 72
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 35 aatgaatct gagatgaaat gagatgaaaa ntgatacgaa aatgatata aaaaatatga 180
 cctgagatga aatgagatga aaaatgatac gaaaaaatgat ataaaaata tgacatgaaa 240
 40 tgaaatgaga tgatatgaaa tgacataatg aatgatgaa ttgatgatat tgaaatgaaa 300
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 catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga 420
 45 tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga 473

<210> 73
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 <223> n is a, c, g, or t

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 aatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaataa atgaaataat 120
 gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa 180
 30 tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga 240
 gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga 300
 35 tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga 360
 aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaat 420
 aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg 480
 40 atgagatgaa atgatgaaat 500

<210> 74
 45 <211> 299
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<213> Human

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<223> n is a, c, g, or t

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<222> (57)..(57)
<223> n is a, c, g, or t

<400> 74

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tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga 120
cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa 180
20 tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg 240
aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg 299

25 <210> 75
<211> 155
<212> DNA
<213> Human

30 <400> 75
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taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga 120
35 tgagatgaca tgaaataatg aaacgaaatt gaaat 155

40 <210> 76
<211> 367
<212> DNA
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35 <221> misc_feature
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<400> 76

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ctactnaga ngaantcctc gcaaaatcct tgaatcaccg cttcagtga gtgatcac 120

cgccatgaaa ttctgctcg attagcttac gttgtttgga tagaggcaa acaaggctgt 180

45 tatcggtagc aggaatggat gttcgatttc gtagaatag cctgagagac ggccaatact 240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300

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30 tcagtgttg gggtttattt ttaaaagaat aggggtgccac cagatgttct ttagtggagg 180

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 30 tattacaaa atatttgac cattantaaa gantagggcc aaccnaatt ttcttgaaa 180
 ttccgttaa atagccgtta aatgtttta cccattcat attggatacc ttaaattata 240
 35 ataatggatt ttattgttaa attgtgtgtg tgtggtgtg atgccctgtc tttctctc 300
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 30 ccaataaaaa aaacntttt ggaaangggg aaa 213

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gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg 180

15 aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat 240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa 300

20 tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa 360

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 25 gacctctgaa tgtattantg anncaagtga tagccaagat attttgaaga aaaatagata 120
 ntagggacct gctctataag cccatcataa ttattatga agttataaca agtaaaacag 180
 taaggtattt ggcatggaat agagaacca gaaacagacc caatgcatgg gtacaggata 240
 30 taacacaggg aaatgagggg caatatatgg ttctgggata attattata tggggaaaat 300
 aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg 360
 35 catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg 420
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15 aggaaggaag gaagg 135

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aacttcctca gaaggacaag agacaaagaa gtgggggagg cctcctatc catagctgag 180
35 agggtttatt cttgtgggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc 240

aaccacagct agacagaact ttgtagattt tgggggggtt aaaagcctc aagcaaattc 300

40 taaaactttc ttgaacccc ctggcatagg ctcagtttcc ctgact 346

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5 gaaaagaaaa tggtttttt tgccgaaatc aaccgggtaa 100

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10 <212> DNA

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20 atgtaacagt gtggggtttc a 201

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tcctttaccc cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg 180

35 ttaaccatcg caatgccga ccgagtttaa ggaccactcc ccaccttct cattagtaa 240

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40 ttcttctaag cgtagcgcgt ctactccaat gttttcgta atccagcccg aactaacgcc 420

gcggaggagt cgaiccgct actcctatcc cgtcggctcg gatttactac aggagctaag 480

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 acagccaaac cggtcgccc aaggcctccg tcgtttata atatattccg ttacgtata 180
 aggaacgaac ccccttcat taccacgggc ccgcgtccgc ctcttctcc attcgcaaca 240
 15 gtctattcc ttacgctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa 300
 gatagcaaag attaccagc ttctattcct cgtcccagag ccgagtaaat cgaagttat 360
 20 agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa 420
 tataaactta atgtccctt tattctcccg gacgccctt ttaaccatt ctctctatct 480
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 aattaaggna aggnntaaaa aatttaacca angggggggtt taaagggnntt tttttttta 180

 aaaaaaaagg taaancccc ccctttttt ttgggttggg gtgggaaaat ttgggaanc 240
 45 cttaaccccc gggtttttgg gtttttttgg ccaaaacccc ccggaaaaaa attaaaaaaa 300

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15 taaaatatat gcaaccctcc attccaagga agtatgatgt tactagatta tctgaaaatt 180

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 aaancnttt naaanacngn nanaatttn cnnnncggg gagngngga nntttttt 300
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 nttnnancn ngntnaacat cacagctnct ccnagcatca ccctgctagn tancngnggg 180
 30 ttttctctta tntgnngnnc naacatctgc nngctctgnt annaanaatt ncataccgcn 240

 canngtctnt gacgntgtga tgcatacgn tgggcagagn gancaatang tgngcatatg 300

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 gaaatgaaat gatgaaatga atagatgtga catgaaatga gctgaaatga tgagatcaaa 180
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30 gaaatgaaat gatgagatga aatgaggtga aatgaaatta gatgaaacgt aatgagatga 180

aatgacctaa tgaaatgaaa aatgaaatg aaataatgaa atgaggtgaa attaaatgag 240

atgatgaaat taaatgatga aatgaaataa tgaaatggaa atgaaatgga aatgatgaga 300

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aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttgggggtt 180

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